

In the Specification:

Page 1, first paragraph:

Field of the Invention

The invention relates to a method ~~according to the appended claim 1~~ for adjusting the properties of a surface.

Background of the Invention

Page 1, third paragraph:

For example on the roll surfaces of a paper machine there occurs a great deal of contamination of organic or inorganic origin that causes problems in the paper quality and in the runnability of the machine. On the other hand, on the central roll of the paper machine, the overall surface energy of the roll surface as well as its components have an important role in view of the release of the paper web. The runnability and the release of the web are also affected by the topography of the surface, the homogeneity of the surface and the nature of the contamination adhering on the surface. Previously attempts have been made to affect the properties of the surface by spraying chemicals on the surface of the roll.

Summary of the Invention

Page 2, second full paragraph:

Brief Description of the Drawings

In the following, the invention will be described in more detail with reference to the appended drawings, in which

Paragraph bridging pages 2 and 3:

Detailed Description of Preferred Embodiments of the Invention

Fig. 1 shows the press section of a paper or paperboard machine, in which a press felt 1 is utilized to bring a moist paper or paperboard web W on a central roll 3 of the press via a first press nip P. The web W travels on the periphery of the rotating central roll 3 to a second press nip P that is formed between a guiding roll 2 and a second press felt 1 and the central roll 3. On the central roll 3 the web travels a certain distance on the surface of the roll after the nip P, whereafter it is released at point K and transferred in a free draw to a second guiding roll 4. The peripheral surface of the central roll 3, which is in contact with the web W within a sector of certain length, contains photocatalytically active material. The ways in which the surface of the roll can be equipped with this material will be discussed hereinbelow. At the location of the free sector of the roll 3, in other words at the location where the peripheral surface is not covered by the web W, there is a light source 5 that exerts electromagnetic radiation at a suitable wavelength

on the peripheral surface of the roll 3 to accomplish the photocatalytic activation of the coating thereon. After the release point K of the web W, in the direction of rotation of the roll 3 and before the area of influence of the light source 5, there is one or several doctor blades 6 for cleaning the surface of the roll.